

# EXHIBIT A

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## TECHNICAL FIELD

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[Industrial Application] This invention relates to the elevator car frame which has a floor, a door post, and a cope box.

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## DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention relates to the elevator car frame which has a floor, a door post, and a cope box.

[0002]

[Description of the Prior Art] Drawing 4 and drawing 5 are the figures explaining the conventional elevator car frame, drawing 4 is a perspective view and drawing 5 is a front view.

[0003] Conventionally, as shown, for example in these figures, an elevator car frame equips a lower end with the bracket 3 concluded by the floor 1 and the drag flask 2 which form a floor, and the drag flask 2 in one, and has the door post 4 provided in the both sides of the drag flask 2 one pair, and the upper beam 5 connected with the upper part of these door posts 4. Each of the above-mentioned door post 4 comprises the thing in which L die steel was made to install side by side, and the cope box 5 comprises the thing in which for example, C channel was made to install side by side. The floor 1 is laid on the rubber cushion 6 provided on the drag flask 2. 7 is a tie rod for reinforcement arranged at the both sides of each door post 4. 8 is the bracket formed on the upper beam 5, and the end of the wire rope 9 for rise and fall is fixed to this bracket 8.

[0004]

[Problem(s) to be Solved by the Invention] When the gap of the sill 10 currently installed in the floor 1 and the sill 11 of each factorial place differs from the module, it is necessary to adjust so that it may be settled in a module. When such adjustment is required, loosen and adjust the bolt of the fastening portion of the drag flask 2 and the bracket 3 conventionally, or, it was adjusting so that the bolt of a joining segment with the guide shoe concluded by the extraordinary \*\*\*\*\* 12 bottom concluded by the drag flask 2 might be loosened and the sill 10 might approach the sill 11, or so that the sill 10 might separate from the sill 11. However, since the upper beam 5 is connected with the door post 4 by the bracket 8, it will be in the state where floor 1 grade will sway to a longitudinal direction focusing on upper beam 5 portion if it adjusts with a described method. In connection with this, deviation may arise in the levelness of the floor 1, deviation may arise in the plumbness of the door post 4, or torsion may arise in the whole

car frame, and it is [ of taking out still more troublesome levelness, plumbness, etc. / alignment work ] necessary.

[0005] This invention was made in view of the actual condition in the conventional technology which carried out upper mind, and the purpose is to provide the elevator car frame which can perform adjustment between sills, maintaining the levelness of a floor, and the plumbness of a door post.

[0006]

[Means for Solving the Problem] In an elevator car frame which has a door post of a couple by which this invention is set up by both sides of a floor and this floor in order to attain this purpose, and an upper beam which connects the upper part of these door posts, A means to conclude the above-mentioned floor and the above-mentioned door post movable via a bolt inserted in the 1st oblong hole installed horizontally and this 1st oblong hole, and the 2nd oblong hole that installed horizontally the above-mentioned upper beam and the above-mentioned door post, It has composition which provided at least one of the means to conclude movable via a bolt inserted in this 2nd oblong hole.

[0007]

[Function] When the gap of the sill of a floor and the sill of the floor of a building differs from the module, For example, since what is necessary is to loosen the bolt inserted in the 1st oblong hole, and just to move a floor to a door post via the 1st oblong hole and the 1st oblong hole is horizontally installed in this case, a floor can be moved horizontally. What is necessary is just to conclude a bolt in the position from which the desired gap was obtained. Thereby, adjustment between sills can be performed, maintaining the levelness of a floor, and the plumbness of a door post.

[0008] Instead of loosening the bolt inserted in the 1st oblong hole mentioned above, in providing the 2nd oblong hole, the bolt inserted in this 2nd oblong hole can be loosened, and the sill gap of \*\* can be adjusted like \*\*\*\*.

[0009]

[Example] Hereafter, the example of the elevator car frame of this invention is described based on figures.

[0010] The front view in which drawing 1 shows one example of this invention, the figure showing the state before connection with the upper beam and door post corresponding to the direction view of b of drawing 1 in drawing 2, and drawing 3 are the figures showing the state before connection with the upper beam and door post corresponding to the direction view of a of drawing 1.

[0011] Identical codes have shown to the thing equivalent to drawing 4 mentioned above among the numerals shown in these drawing 1 - drawing 3, and the thing shown in drawing 5. That is, even if it is in the example shown in these drawing 1 - drawing 3, it has the upper beam 5 grade connected with the upper part of the floor which consists of the floor 1 and the drag flask 2, the door post 4 which has the bracket 3, and the door post 4.

[0012] And especially in this example, as shown in drawing 1, the oblong hole 12 installed horizontally is formed in the bracket 3 formed in the door post 4 in one, and the bolt 13 which concludes the bracket 3 and the drag flask 2 in this oblong hole 12 is inserted in it. As shown in drawing 2 and drawing 3, the plate 14 is formed in the end of the upper beam 5 in one, The plate 15 is formed in the door post 4 in one so that this plate 14 may be countered, the hole 17 where the bolt 16 shown in drawing 1 is inserted in the

plate 14 is formed, and it has formed in the plate 15 so that the oblong hole 18 where the bolt 16 is inserted may be installed horizontally.

[0013] If it is in the example constituted in this way, when the situation where the gap of the sill 10 of the floor 1 and the sill 11 of a building differs from the module arises as a result of the alignment work of the car frame concerned, For example, what is necessary is to loosen the bolt 13 which has concluded the bracket 3, to move the drag flask 2 in the direction approaching the sill 11, or the direction which separates from the sill 11, and just to tighten the bolt 13 in the position from which the sill gap became a module. By this, while being able to make a sill gap into a module easily, Since the floor 1 moves to the drag flask 2 horizontally in one, the levelness of the floor 1 is not affected and the door post 4 is not moved, the plumbness of the door post 4 is not affected, either, therefore the re-alignment of levelness and plumbness is not required.

[0014] The bolt 16 may be loosened if needed, the door post 4 may be horizontally moved to the upper beam 5, and a sill gap may be adjusted. Even in this case, the plumbness of the door post 4 and the levelness of the floor 1 are not affected.

[0015]

[Effect of the Invention] In this invention, it used constituting as mentioned above.

Thereby, maintaining the levelness and plumbness of a floor, adjustment between sills can be performed, therefore there is no concern of the re-alignment work after adjustment between sills like before, and the efficiency of car frame alignment work can be raised.

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## CLAIMS

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[Claim(s)]

[Claim 1] A floor.

An upper beam which connects a door post of a couple set up by both sides of this floor, and the upper part of these door posts.

The 1st oblong hole that is the elevator car frame provided with the above, and installed horizontally the above-mentioned floor and the above-mentioned door post, At least one of the means to conclude a means to conclude movable via a bolt inserted in this 1st oblong hole, and the above-mentioned upper beam and the above-mentioned door post, movable via a bolt inserted in the 2nd oblong hole installed horizontally and this 2nd oblong hole was provided.